an Assignment on
Problem Solving and Lab C++
Sejong University

Assignment:3

by
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Guidelines

1. Complete the assignment an upload to black board within the deadline.
2. Clearly mention your name and student ID.
3. **Do not copy from other friends**. If found 0marks will be given.
4. **Do not submit the blank file**. If found will get the demerit point.
5. Submit all the problems in single file (.docx).
6. The file should contain the **source code along with the output screen**.
7. Use the comment option to explain your code.
8. The solution should be exactly match to the question.
9. If you have any question do not hesitate to inbox me.
10. *Note: Evaluation of all the assignment will be done at the end of semester at once.*

Deadline: 2021/05/24

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Q.1) Overload greater than operator for the string to find out which one is greater. Hint use strlen() function. *Assume other condition if needed by yourself.*

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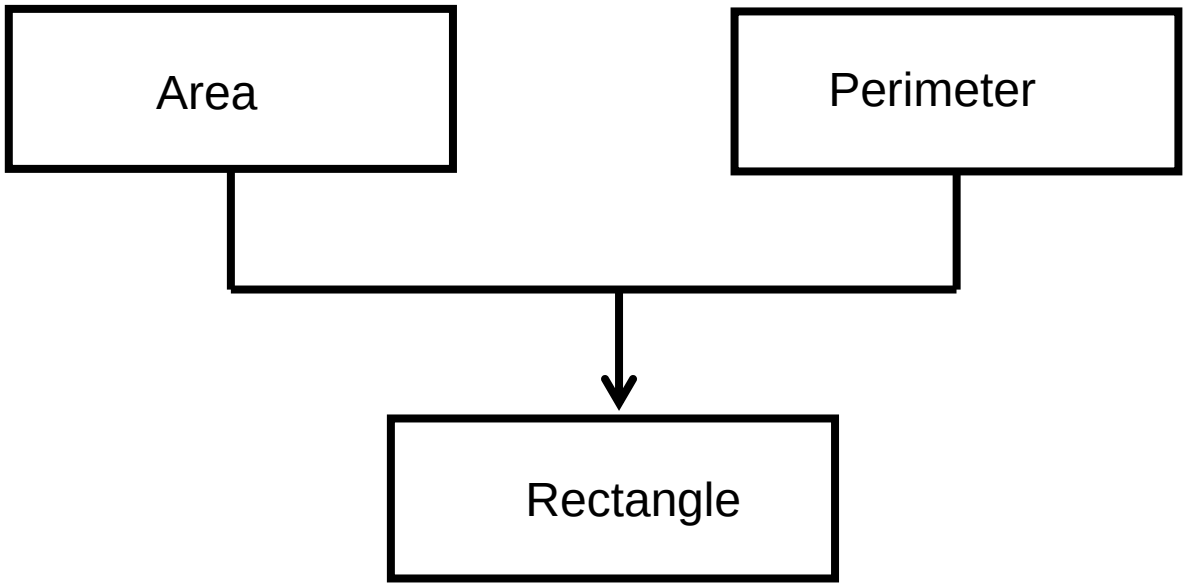
Q.2) Write a code to implement multiple inheritance as shown below. Function to calculate area is member function of Class Area and Function to calculate perimeter is member function of Class Perimeter. Object of class rectangle should be able to use those functions to calculate area and perimeter. *Assume other condition if needed by yourself.*



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Q.3) Write a program that defines a class shape and has members height and width. Define two classes rectangle and triangle that inherit those features from class shape. Inside each derived classes write function to calculate corresponding area. Check the area of rectangle and triangle for width =10 and height=5. *Assume other condition if needed by yourself.*

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Q.4) Write a program with a mother class animal. Inside it define a name and an age variables, and getdata() function. Then, create two derived classes Zebra and Dolphin from class animal, which write a message telling the age, the name and giving some extra information (e.g. place of origin). *Assume other condition if needed by yourself.*